

Labiosa, Rochelle

From: Shaw, Hanh
Sent: Monday, February 04, 2019 8:48 AM
To: Sweeney, Stephen
Cc: Labiosa, Rochelle; Byrne, Jennifer
Subject: FW: [EXTERNAL] RE: Hells Canyon SSC data request
Attachments: image002.png

See below.

-----Original Message-----

From: Dumas, Brett <BDumas@idahopower.com>
Sent: Friday, February 01, 2019 2:59 PM
To: Labiosa, Rochelle <labiosa.rochelle@epa.gov>; Myers, Ralph <RMyers@idahopower.com>; Jason.Pappani@deq.idaho.gov; Shaw, Hanh <Shaw.Hanh@epa.gov>
Cc: Barry.Burnell@deq.idaho.gov; Chandler, Jim <JChandler@idahopower.com>; Higer, Sarah <SHiger@idahopower.com>; Tucker, James <JTucker@idahopower.com>; 'Albert Barker' (apb@idahowaters.com) <apb@idahowaters.com>; Palmer, John <Palmer.John@epa.gov>
Subject: RE: [EXTERNAL] RE: Hells Canyon SSC data request

Hi Rochelle,
We're working on your redd data request and will get that to you by Feb. 8th.
Best Regards,
Brett

Sent with BlackBerry Work
(www.blackberry.com)

From: Labiosa, Rochelle <labiosa.rochelle@epa.gov<mailto:labiosa.rochelle@epa.gov>>
Date: Thursday, Jan 31, 2019, 2:23 PM
To: Myers, Ralph <RMyers@idahopower.com<mailto:RMyers@idahopower.com>>, Dumas, Brett <BDumas@idahopower.com<mailto:BDumas@idahopower.com>>, Jason.Pappani@deq.idaho.gov <Jason.Pappani@deq.idaho.gov<mailto:Jason.Pappani@deq.idaho.gov>>, Shaw, Hanh <Shaw.Hanh@epa.gov<mailto:Shaw.Hanh@epa.gov>>
Cc: Barry.Burnell@deq.idaho.gov <Barry.Burnell@deq.idaho.gov<mailto:Barry.Burnell@deq.idaho.gov>>, Chandler, Jim <JChandler@idahopower.com<mailto:JChandler@idahopower.com>>, Higer, Sarah <SHiger@idahopower.com<mailto:SHiger@idahopower.com>>, Tucker, James <JTucker@idahopower.com<mailto:JTucker@idahopower.com>>, 'Albert Barker' (apb@idahowaters.com) <apb@idahowaters.com<mailto:apb@idahowaters.com>>, Palmer, John <Palmer.John@epa.gov<mailto:Palmer.John@epa.gov>>
Subject: [EXTERNAL] RE: Hells Canyon SSC data request

KEEP IDAHO POWER SECURE! External e-mails may request information or contain malicious links or attachments. Verify the sender before proceeding.

Thanks again Ralph, and to Brett for compiling the data. We have one follow-up request regarding the redd data in order to have a more complete understanding of the fall Chinook biology in the Snake. Would it be possible to get a breakout

of the redd data by date of record over the October-November period for each year since 2000? I have included a plot that NOAA put together for the Hanford Reach (permission granted to share from Ritchie Graves) as an example of the type of breakout of redd data that we are hoping to get. We would greatly appreciate the additional data by February 8.

All the best,
Rochelle

Rochelle Labiosa, Ph.D.
Office of Water and Watersheds
US EPA, Region 10
1200 Sixth Avenue, Suite 155, MC: OWW-191 Seattle, WA 98101-3140
Ph: 206.553.1172

[cid:image002.png@01D4B95B.FCC9C0B0]

From: Myers, Ralph <RMyers@idahopower.com>
Sent: Monday, January 28, 2019 1:29 PM
To: Labiosa, Rochelle <labiosa.rochelle@epa.gov>; Dumas, Brett <BDumas@idahopower.com>; Jason.Pappani@deq.idaho.gov; Shaw, Hanh <Shaw.Hanh@epa.gov>
Cc: Barry.Burnell@deq.idaho.gov; Chandler, Jim <JChandler@idahopower.com>; Higer, Sarah <SHiger@idahopower.com>; Tucker, James <JTucker@idahopower.com>; 'Albert Barker' (apb@idahowaters.com) <apb@idahowaters.com>; Palmer, John <Palmer.John@epa.gov>
Subject: RE: Hells Canyon SSC data request

Rochelle,
Brett is out of the office until Friday, so I will send you the file he sent earlier with the extension changed to .zpi

Please let me know if the attachment makes it through this time.

Thank you

Ralph Myers
Environmental Manager: Water Quality Program Idaho Power Company
208-388-2358 (office)
208-559-2573 (cell)
rmyers@idahopower.com<mailto:rmyers@idahopower.com>

From: Labiosa, Rochelle <labiosa.rochelle@epa.gov<mailto:labiosa.rochelle@epa.gov>>
Sent: Monday, January 28, 2019 1:58 PM
To: Dumas, Brett <BDumas@idahopower.com<mailto:BDumas@idahopower.com>>; Jason.Pappani@deq.idaho.gov<mailto:Jason.Pappani@deq.idaho.gov>; Shaw, Hanh <Shaw.Hanh@epa.gov<mailto:Shaw.Hanh@epa.gov>>
Cc: Barry.Burnell@deq.idaho.gov<mailto:Barry.Burnell@deq.idaho.gov>; Myers, Ralph <RMyers@idahopower.com<mailto:RMyers@idahopower.com>>; Chandler, Jim <JChandler@idahopower.com<mailto:JChandler@idahopower.com>>; Higer, Sarah <SHiger@idahopower.com<mailto:SHiger@idahopower.com>>; Tucker, James <JTucker@idahopower.com<mailto:JTucker@idahopower.com>>; 'Albert Barker' (apb@idahowaters.com<mailto:apb@idahowaters.com>) <apb@idahowaters.com<mailto:apb@idahowaters.com>>; Palmer, John <Palmer.John@epa.gov<mailto:Palmer.John@epa.gov>>

Subject: [EXTERNAL] RE: Hells Canyon SSC data request

KEEP IDAHO POWER SECURE! External e-mails may request information or contain malicious links or attachments. Verify the sender before proceeding.

Hi Brett,

Thank you for the information. We just returned to the office today after the extended furlough. Unfortunately it does not look like your files made it through our spam filter. I think it was because they were zipped? If the extension is .zip it won't come through - you have to manually change it to .zpi or something like that and then I can change it back on my end when the files come through.

Please try it again, and once I get those I will start taking a look.

Thank you again.

All the best,
Rochelle

Rochelle Labiosa, Ph.D.
Office of Water and Watersheds
US EPA, Region 10
1200 Sixth Avenue, Suite 155, MC: OWW-191 Seattle, WA 98101-3140
Ph: 206.553.1172

From: Dumas, Brett <BDumas@idahopower.com<mailto:BDumas@idahopower.com>>
Sent: Friday, January 04, 2019 12:48 PM
To: Jason.Pappani@deq.idaho.gov<mailto:Jason.Pappani@deq.idaho.gov>; Shaw, Hanh <Shaw.Hanh@epa.gov<mailto:Shaw.Hanh@epa.gov>>
Cc: Barry.Burnell@deq.idaho.gov<mailto:Barry.Burnell@deq.idaho.gov>; Myers, Ralph <RMyers@idahopower.com<mailto:RMyers@idahopower.com>>; Chandler, Jim <JChandler@idahopower.com<mailto:JChandler@idahopower.com>>; Higer, Sarah <SHiger@idahopower.com<mailto:SHiger@idahopower.com>>; Tucker, James <JTucker@idahopower.com<mailto:JTucker@idahopower.com>>; 'Albert Barker' (apb@idahowaters.com<mailto:apb@idahowaters.com>) <apb@idahowaters.com<mailto:apb@idahowaters.com>>; Labiosa, Rochelle <labiosa.rochelle@epa.gov<mailto:labiosa.rochelle@epa.gov>>; Palmer, John <Palmer.John@epa.gov<mailto:Palmer.John@epa.gov>>
Subject: Hells Canyon SSC data request

Hanh & Jason,

This email is in response to your data request to Jason Pappani (Idaho Department of Environmental Quality). IDEQ passed the request along to Idaho Power Company on December 20 and requested that IPC respond to you with additional information that may be relevant to your request. IPC's response includes 44 attached data files (in one zip file – see attached) and 2 links to relevant reports, including:

Redd Counts

An attached excel spreadsheet (EPA Request for Snake River Redd Counts 1991 to 2017) contains redd counts for the Snake River upstream of the Salmon River, downstream of the Salmon River and total. The 2018 redd count information is not available for distribution. Video files are still being reviewed and coordinated with USGS.

Water Quality

Attached Excel spreadsheet files contain temperature and dissolved oxygen data for locations from Hells Canyon Dam (RM 247.6) downstream to locations in Lower Granite Reservoir. The locations are identified by river miles (RM), which correspond with USGS quad map river mile designations. The specific sample locations are further defined by channel cross section location (RB, RC, MC, LC, LC, PS1).

Cross channel location definitions (all are from the perspective of looking downstream):

RB indicates the instrument was attached to the right bank of the river RC indicates the instrument was located in the right half of the river channel MC indicates the instrument was in the thalweg of the river channel LC indicates the instrument was in the left half of the river channel LB indicates the instrument was attached to the left bank of the river PS1 indicates the instrument was in penstock #1 of Hells Canyon Dam The files also indicate the general type of instrument used to collect the data (logger, logger1, sonde, gage). Logger, Logger1, or Gage indicates a temperature monitoring instrument that logs temperature data at defined intervals. Logger1 indicates there were duplicate loggers deployed. Sonde indicates a temperature and dissolved oxygen monitoring instrument that logs data at defined intervals The time period varies for each location, and is consistently inclusive of processed data within IPC's water quality database from January 1, 1990 through December 31, 2018. The attached data represents all temperature and dissolved oxygen data collected by IPC using instruments that collected multiple data points, within a day, at a location. In response to your preference, the data have been summarized as daily minimums, daily means, and daily maximums.

Cold-water Refugia

Section 6.1 and Exhibit 6.1-1 of the Hells Canyon section 401 application includes a description and analyses of available cold-water refugia in Hells Canyon. These documents are available at the following link

<https://docs.idahopower.com/pdfs/Relicensing/hellscanyon/hellspdfs/HCC401Application.pdf>

Idaho Power does not have information on cold-water refugia available in the Hanford Reach of the Columbia River.

Thermal probe data

IPC does not have information from thermal probes within fish. A recent publication may be of value in this regard. Connor, W.P., K.F. Tiffan, J.A. Chandler, D.W. Rondorff, B.D. Arnsberg and K.C. Anderson. 2018. Upstream migration and spawning success of chinook salmon in a highly developed, seasonally warm river system. Reviews in Fisheries Science & Aquaculture. ISSN:2330-8257 (Online) journal homepage: <http://www.tandfonline.com/loi/brsf21>

If you have any questions regarding the data, please do not hesitate to contact me for clarification.

Brett Dumas

ENVIRONMENTAL AFFAIRS DIRECTOR

Idaho Power Company

PO Box 70 | 1221 W. Idaho St., Boise, ID 83707 | 83702 Work 208-388-2330 Cell 208-850-7721 Email

BDumas@idahopower.com<<mailto:BDumas@idahopower.com>>

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